

# TABLE OF CONTENTS

Volume 203

## ARTICLES

ANDERSON, W. J. and A. M. MATHAI / Generalizations of Reaction Rate Integrals with Applications to Nuclear Synthesis in Astrophysics and Some Corrections to Published Literature	43
CHAKRABORTY, S. N. and R. BONDYOPADHAYA / Effect of Temperature Gradient on the Wave Propagation in a Self-Gravitating Medium and Its Role in the Central Region of Our Galaxy	1
DEGHEIDY, A. R. and M. A. MADKOUR / Application of Maximum- Entropy Technique to Spherical Geometry in Radiative Transfer and Reactor Physics	217
DODD, R. J. and S. LEGGET / The Classification of Stellar Spectra Using Statistical Image Moments	305
GEROYANNIS, V. S. / Rotating Visco-Polytropic Models: Energy Dissipation and Differential Rotation Setup	267
GU, S., YULAN YANG, QINGYAO LIU, and ZHOUSHENG ZHANG / The Early-Type Eclipsing Contact Binary TY Puppis	161
GUANG-WEN MA / The Missing Mass Problem and the Cosmological Constant Problem in the Brans-Dicke Theory	139
HAMDY, M. A., M. S. ABO ELAZM, and S. M. SAAD / A Catalogue of Spectral Classification and Photometric Data of B-Type Stars	53
KARANJAI, S. and T. K. DEB / An Exact Linearization and Decoupling of the Integral Equations Satisfied by Time-Dependent X- and Y-Functions	135
KATOH, M. and SHIRO SAKASHITA / Flux Limited Diffusion Theory in a Moving Fluid	275
KIM, J., J. SEON, and K. MIN / Thin Electron Beam Propagation in Plasmas	181
NIARCHOS, P. G., H. ROVITHIS-LIVANIOU, and P. ROVITHIS / A Photometric Study of V566 Ophiuchi	197
PETRY, W. / Post-Newtonian Gravitational Radiation from Binary Systems in Flat Space-Time Theory of Gravitation	147
RAY, S. and DIPANKAR RAY / Spherically Symmetric Electromagnetic Mass Models with Cosmological Parameter $\Lambda$	211
SAMOKHIN, M. V. / The Conditions for the Existence of the Electric Field Opposite to the Current along the Magnetic Field Lines in the Thin Plasma	109
SAZHIN, S. S. / A Relativistic Theory of Plasma Cut-Offs	317
SEN, K. K. and S. J. WILSON / Generalised Eddington Approximation for Radiative Transfer Problems in Spherically-Symmetric Moving Media	227

# TABLE OF CONTENTS

SEZER, C., Ö. GÜLMEN, and N. GÜDÜR / Photometry and Analysis of the Eclipsing Variable GO Cygni	121
SHENGHONG, G., LIU QINGYAO, YANG YULAN, and WANG BI / Photometric Study of the Algol-Type Eclipsing Binary EU Hydrae	189
SHUCHEN, J., DING YOUJI, CHEN GUOQIANG, and CAO WENDA / Radio and Soft X-Ray Investigation of the Solar Flares of February 4, 1986	241
TSVETKOV, TS. G. / Ages and Masses of Delta Scuti Stars in the Praesepe Cluster	247
TSVETKOV, TS. G. and TS. C. PETROVA / Masses and Ages of Delta Scuti Stars in Eclipsing Binary Systems	257
TSVETKOV, TS. G. / Population I Pulsating Stars. VII. Approximate Period- Luminosity Relations	289
WIRSICH, J. / The Photodissociation of Circumstellar CO	23
YADAV, R. B. S. and U. PRASAD / Non-Static Conformally Flat Spherically Symmetric Perfect Fluid Distribution in Einstein-Cartan Theory	37

## LETTER TO THE EDITOR:

AROONKUMAR BEESHAM / The Isotropization of the Vacuum Bianchi Type-V Solution	169
Erratum	329
List of Forthcoming Papers	171, 339
The 'KLUWER' LaTeX Style File: Instructions for Authors	173, 331

